#### Pt. 461

by this paragraph, which may be discharged from the hospital point source subject to the provisions of this paragraph after application of the best practicable control technology currently available:

	Effluent limitations	
Effluent characteristic	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not ex- ceed—
	Metric units (kg/1,000 occupied beds)	
BOD <sub>5</sub>	41.0	33.6
TSS	55.6	33.8
pH	(1)	(1)
	English units (lb/1,000 occupied beds)	
BOD <sub>5</sub>	90.4	74.0
TSS	122.4	74.5
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range 6.0 to 9.0.

[41 FR 18777, May 6, 1976, as amended at 60 FR 33972, June 29, 1995]

#### PART 461—BATTERY MANUFAC-TURING POINT SOURCE CAT-EGORY

GENERAL PROVISIONS

Sec.

461.1 Applicability.

461.2 General definitions.

461.3 Monitoring and reporting requirements.

461.4 Compliance date for PSES.

### Subpart A—Cadmium Subcategory

- 461.10 Applicability; description of the cadmium subcategory.
- 461.11 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 461.12 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 461.13 New source performance standards (NSPS).
- 461.14 Pretreatment standards for existing sources (PSES).
- 461.15 Pretreatment standards for new sources (PSNS).

#### Subpart B—Calcium Subcategory

461.20 Applicability; description of the calcium subcategory.

461.21–461.22 [Reserved]

461.23 New source performance standards (NSPS).

461.24 [Reserved]

461.25 Pretreatment standards for new sources (PSNS).

#### Subpart C—Lead Subcategory

- 461.30 Applicability; description of the lead subcategory.
- 461.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 461.32 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT)
- 461.33 New source performance standards (NSPS).
- 461.34 Pretreatment standards for existing sources (PSES).
- 461.35 Pretreatment standards for new sources (PSNS).

#### Subpart D—Leclanche Subcategory

- 461.40 Applicability; description of the Leclanche subcategory.
- 461.41-461.42 [Reserved]
- 461.43 New source performance standards (NSPS).
- 461.44 Pretreatment standards for existing sources (PSES).
- 461.45 Pretreatment standards for new sources (PSNS).

#### Subpart E—Lithium Subcategory

- 461.50 Applicability; description of the lithium subcategory.
- 461.51-461.52 [Reserved]
- 461.53 New source performance standards (NSPS).
- 461.54 [Reserved]
- 461.55 Pretreatment standards for new sources (PSNS).

#### Subpart F-Magnesium Subcategory

- 461.60 Applicability; description of the magnesium subcategory.
- 461.61-461.62 [Reserved]
- 461.63 New source performance standards (NSPS).
- 461.64 Pretreatment standards for existing sources (PSES).
- 461.65 Pretreatment standards for new sources (PSNS).

#### Subpart G—Zinc Subcategory

- 461.70 Applicability; description of the zinc subcategory.
- 461.71 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 461.72 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 461.73 New source performance standards (NSPS).
- 461.74 Pretreatment standards for existing sources (PSES).
- 461.75 Pretreatment standards for new sources (PSNS).

AUTHORITY: Secs. 301, 304 (b), (c), (e), and (g), 306 (b) and (c), 307 (b) and (c), 308 and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, as amended by the Clean Water Act of 1977 (the "Act"); 33 U.S.C. 1311, 1314 (b), (c), (e), and (g), 1316 (b) and (c), 1317 (b) and (c), and 1361; 86 Stat. 816, Pub. L. 92–500; 91 Stat. 1567, Pub. L. 95–217.

SOURCE: 49 FR 9134, Mar. 9, 1984, unless otherwise noted.

### GENERAL PROVISIONS

#### § 461.1 Applicability.

This part applies to any battery manufacturing plant that discharges or may discharge a pollutant to waters of the United States or that introduces pollutants to a publicly owned treatment works. Battery manufacturing operations subject to regulation under this part shall not be subject to regulation under part 413 or 433.

#### § 461.2 General definitions.

In addition to the definitions set forth in 40 CFR part 401, the following definitions apply to this part: (a) "Battery" means a modular elec-

- (a) "Battery" means a modular electric power source where part or all of the fuel is contained within the unit and electric power is generated directly from a chemical reaction rather than indirectly through a heat cycle engine. In this regulation there is no differentiation between a single cell and a battery.
- (b) "Battery manufacturing operations" means all of the specific processes used to produce a battery including the manufacture of anodes and

- cathodes and associated ancillary operations. These manufacturing operations are excluded from regulation under any other point source category.
- (c) "Ancillary operations" means all of the operations specific to battery manufacturing and not included specifically within anode or cathode manufacture (ancillary operations are primarily associated with battery assembly and chemical production of anode or cathode active materials).
- (d) "Plate soak" shall mean the process operation of soaking or reacting lead subcategory battery plates, that are more than 2.5 mm (0.100 in) thick, in sulfuric acid.
- (e) "Discharge allowance" means the amount of pollutant (mg per kg of production unit) that a plant will be permitted to discharge. For this category the allowances are specific to battery manufacturing operations.
- (f) "Miscellaneous wastewater streams" shall mean the combined wastewater streams from the process operations listed below for each subcategory. If a plant has one of these streams then the plant receives the entire miscellaneous waste stream allowance.
- (1) Cadmium subcategory. Cell wash, electrolyte preparation, floor and equipment wash, and employee wash.
- (2) Lead subcategory. Floor wash, wet air pollution control, battery repair, laboratory, hand wash, and respirator wash
- (3) Lithium subcategory. Floor and equipment wash, cell testing, and lithium scrap disposal.
- (4) Zinc subcategory. Cell wash, electrolyte preparation, employee wash, reject cell handling, floor and equipment wash.
- (g) "Trucked batteries" shall mean batteries moved into or out of the plant by truck when the truck is actually washed in the plant to remove residues left in the truck from the batteries.

### § 461.3 Monitoring and reporting requirements.

The "monthly average" regulatory values shall be the basis for the monthly average discharge in direct discharge permits and for pretreatment

#### 40 CFR Ch. I (7-1-06 Edition)

#### §461.4

standards. Compliance with the monthly discharge limit is required regardless of the number of samples analyzed and averaged.

#### § 461.4 Compliance date for PSES.

The compliance date for pretreatment standards for existing sources is March 9, 1987.

### Subpart A—Cadmium Subcategory

### § 461.10 Applicability; description of the cadmium subcategory.

This subpart applies to discharges to waters of the United States, and introductions of pollutants into publicly owned treatment works from the manufacturing of cadmium anode batteries.

# § 461.11 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(1) Subpart A—Pasted and Pressed Powder Anodes.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium	
	English units—pounds p 1,000,000 pounds cadmium	
Cadmium	0.92	0.41
Nickel	5.18	3.43
Zinc	3.94	1.65
Cobalt	0.57	0.24
Oil and grease	54.00	32.40
TSS	111.00	52.65
pH	(¹)	( <sup>1</sup> )

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(2) Subpart A—Electrodeposited Anodes.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cadr	mg/kg of
	English units- 1,000,000 cadmium	pounds per pounds of
Cadmium	237.0	104.6
Nickel	1,338.2	885.2
Zinc	1,017.6	425.2
Cobalt	146.4	62.7
Oil and grease	13,940.0	8,364.0
TSS	28,577.0	13,592.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(3) Subpart A-Impregnated Anodes.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cadn	
	English units- 1,000,000 cadmium	
Cadmium	339.3	149.7
Nickel	1,916.2	1,267.5
Zinc	1,457.1	608.8
Cobalt	209.6	89.8
Oil and grease	19,960.0	11,976.0
TSS	40,918.0	19,461.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

 $\begin{array}{ccc} \textbf{(4)} & \textbf{Subpart} & \textbf{A--Nickel} \\ \textbf{Electrode posited Cathodes.} \end{array}$ 

#### **BPT EFFLUENT LIMITATIONS**

Cadmium         1,000,000 pounds of nickel applied           Nickel         193.5         85.4           Nickel         1,092.5         722.6           Zinc         830.7         347.1           Cobalt         119.5         51.2           Oil and grease         11,380.0         6,828.0           TSS         23,329.0         11,095.5			
nickel applied       English units—pounds per 1,000,000 pounds of nickel applied       Cadmium     193.5     85.4       Nickel     1,092.5     722.6       Zinc     830.7     347.1       Cobalt     119.5     51.2       Oil and grease     11,380.0     6,828.0       TSS     23,329.0     11,095.5	Pollutant or pollutant property	for any 1	for monthly
Cadmium         1,000,000 pounds of nickel applied           Nickel         193.5         85.4           Nickel         1,092.5         722.6           Zinc         830.7         347.1           Cobalt         119.5         51.2           Oil and grease         11,380.0         6,828.0           TSS         23,329.0         11,095.5			
Nickel         1,092.5         722.6           Zinc         830.7         347.1           Cobalt         119.5         51.2           Oil and grease         11,380.0         6,828.0           TSS         23,329.0         11,095.5		1,000,000 pounds	
Zinc     830.7     347.1       Cobalt     119.5     51.2       Oil and grease     11,380.0     6,228.0       TSS     23,329.0     11,095.5	Cadmium	193.5	85.4
Cobalt         119.5         51.2           Oil and grease         11,380.0         6,828.0           TSS         23,329.0         11,095.5	Nickel	1,092.5	722.6
Oil and grease         11,380.0         6,828.0           TSS         23,329.0         11,095.5	Zinc	830.7	347.1
TSS 23,329.0 11,095.5	Cobalt	119.5	51.2
	Oil and grease	11,380.0	6,828.0
pH (1)	TSS	23,329.0	11,095.5
	<u>pH</u>	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(5) Subpart A—Nickel Impregnated Cathodes.

### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds pounds nickel applied	
Cadmium	557.6	246.0
Nickel	3,148.8	2,082.8
Zinc	2,394.4	1,000.4
Cobalt	344.4	147.6
Oil and grease	32,800.0	19,680.0
TSS	67,240.0	31,980.0
<u>pH</u>	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(6) Subpart A—Miscellaneous Wastewater Streams.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds pounds 1,000,000 pounds cells produced	
Cadmium	6.29	2.77
Nickel	35.54	23.50
Zinc	27.02	11.29
Cobalt	3.89	1.66
Oil and grease	370.20	222.12
TSS	758.91	360.94
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(7) Subpart A—Cadmium Powder Production.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium powder produce	
	1,000,000	pounds per pounds of powder pro-
Cadmium	22.34	9.86
Nickel	126.14	83.44
Zinc	95.92	40.08
Cobalt	13.80	5.91
Oil and grease	1,314.00	788.40
TSS	2,693.00	1,281.20
pH	(¹)	( <sup>1</sup> )

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(8) Subpart A—Silver Powder Production.

### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced English units—pounds per 1,000,000 pounds of sil- ver powder produced	
Cadmium	7.21	3.18
Nickel	40.70	26.92
Silver	8.69	3.61
Zinc	30.95	12.93
Cobalt	4.45	1.91
Oil and grease	424.00	254.40
TSS	869.20	413.40
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(9) Subpart A—Cadmium Hydroxide Production.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium used	
	English units- 1,000,000 cadmium us	
Cadmium	0.31	0.14
Nickel	1.73	1.14
Zinc	1.31	0.55
Cobalt	0.19	0.08
Oil and grease	18.00	10.80
TSS	36.90	17.60
pH	( <sup>1</sup> )	(1)

 $<sup>^{\</sup>mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$ 

(10) Subpart A—Nickel Hydroxide Production.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel used	
	English units- 1,000,000 nickel used	pounds of
CadmiumNickel	37.4 211.2	16.5 139.7
Zinc	160.6	67.1
Cobalt	23.1	9.9
Oil and grease	2,200.0	1,320.0
TSS	4,510.0	2,145.0
pH	(¹)	(¹)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants

from any battery manufacturing operation other than those battery manufacturing operations listed above.

# § 461.12 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(1) Subpart A—Electrodeposited Anodes.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium	
	English units—pounds 1,000,000 pounds cadmium	
Cadmium	11.95	5.27
Nickel	67.49	44.64
Zinc	51.32	21.44
Cobalt	7.38	3.16

(2) Subpart A—Impregnated Anodes.

### **BAT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
Metric units cadr	—mg/kg of nium
English units—pounds per 1,000,000 pounds of cadmium	
68.0	30.0
384.0	254.0
292.0	122.0
42.0	18.0
	for any 1 day  Metric units cadr  English units 1,000,000 cadmium  68.0 384.0 292.0

 $\begin{array}{ccc} \hbox{(3)} & \hbox{Subpart} & \hbox{A--Nickel} \\ \hbox{Electrodeposited Cathodes.} \end{array}$ 

#### 40 CFR Ch. I (7-1-06 Edition)

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of applied
		—pounds per pounds of ed
Cadmium	11.22	4.95
Nickel	63.36	41.91
Zinc	48.18	20.13

**BAT EFFLUENT LIMITATIONS** 

(4) Subpart A—Nickel Impregnated Cathodes.

2.97

#### **BAT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
	mg/kg of applied
English units—pounds pe 1,000,000 pounds o nickel applied	
68.0	30.0
384.0	254.0
292.0	122.0
42.0	18.0
	for any 1 day  Metric units nickel selection in the selec

(5) Subpart A—Miscellaneous Wastewater Streams.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cells pr	mg/kg of oduced
	English units—pounds pe 1,000,000 pounds of cells produced	
Cadmium	0.79	0.35
Nickel	4.47	2.96
Zinc	3.40	1.42
Cobalt	0.49	0.21

(6) Subpart A—Cadmium Powder Production.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cadmium pow	
	English units- 1,000,000 cadmium duced	
Cadmium	2.23	0.99
Nickel	12.61	8.34
Zinc	9.59	4.01
Cobalt	1.38	0.59

(7) Subpart A—Silver Powder Production.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units	
	English units- 1,000,000   ver powder	oounds of sil-
Cadmium	1.09	0.48
Nickel	6.16	4.08
Silver	1.32	0.55
Zinc	4.69	1.96
Cobalt	0.67	0.29

(8) Subpart A—Cadmium Hydroxide Production.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cadmiu	
	English units- 1,000,000 cadmium us	pounds of
Cadmium	0.05	0.02
Nickel	0.27	0.18
Zinc	0.20	0.09
Cobalt	0.03	0.01

(9) Subpart A—Nickel Hydroxide Production.

**BAT EFFLUENT LIMITATIONS** 

Maximum for any 1 day	Maximum for monthly average
	mg/kg of used
English units—pounds pe 1,000,000 pounds onickel used	
5.61	2.48
31.68	20.96
24.09	10.07
3.47	1.49
	for any 1 day  Metric units nickel  English units 1,000,000 nickel used  5.61 31.68 24.09

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

# § 461.13 New source performance standards (NSPS).

- (a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:
- (1) Subpart A—Electrodeposited Anodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of
	English units—pounds p 1,000,000 pounds of car mium	
Cadmium	7.03	2.81
Nickel	19.33	13.01
Zinc	35.85	14.76
Cobalt	4.92	2.46
Oil and grease	351.5	351.5
TSS	527.3	421.8
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(2) Subpart A—Impregnated Anodes—NSPS.

Metric units—mg/kg of cadmium			
cadmium           English units—pounds per 1,000,000 pounds of cadmium           Cadmium         40.0         16.0           Nickel         110.0         74.0           Zinc         204.0         84.0           Cobalt         28.0         14.0           Oil and grease         2,000.0         2,000.0           TSS         3,000.0         2,400.0	Pollutant or pollutant property		monthly aver-
Cadmium         40.0         16.0           Nickel         110.0         74.0           Zinc         204.0         84.0           Cobalt         28.0         14.0           Oil and grease         2,000.0         2,000.0           TSS         3,000.0         2,400.0			
Nickel         110.0         74.0           Zinc         204.0         84.0           Cobalt         28.0         14.0           Oil and grease         2,000.0         2,000.0           TSS         3,000.0         2,400.0		1,000,000 pounds of cad	
Zinc         204.0         84.0           Cobalt         28.0         14.0           Oil and grease         2,000.0         2,000.0           TSS         3,000.0         2,400.0	Cadmium	40.0	16.0
Cobalt         28.0         14.0           Oil and grease         2,000.0         2,000.0           TSS         3,000.0         2,400.0	Nickel	110.0	74.0
Oil and grease     2,000.0     2,000.0       TSS     3,000.0     2,400.0	Zinc	204.0	84.0
TSS	Cobalt	28.0	14.0
	Oil and grease	2,000.0	2,000.0
pH(1)	TSS	3,000.0	2,400.0
	pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

# (3) Subpart A—Nickel Electrodeposited Cathodes—NSPS.

-		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of nickel blied
	English units—pounds per 1,000,000 pounds of nicke applied	
Cadmium	6.60	2.64
Nickel	18.15	12.21
Zinc	33.66	13.86
Cobalt	4.62	2.31
Oil and grease	330.0	330.0
TSS	495.0	396.0
pH	(1)	(1)

 $<sup>^{\</sup>rm 1}\,\mbox{Within}$  the range of 7.5–10.0 at all times.

# (4) Subpart A—Nickel Impregnated Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units	mg/kg of applied
	English units-	-pounds per
	1,000,000	pounds of
	nickel applied	
Cadmium	40.0	16.0
Nickel	110.0	74.0
Zinc	204.0	84.0
Cobalt	28.0	14.0
Oil and grease	2,000.0	2,000.0
TSS	3,000.0	2,400.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced  English units—pounds pe 1,000,000 pounds of cell produced	
Cadmium	0.47	0.19
Nickel	1.28	0.86
Zinc	2.38	0.98
Cobalt	0.33	0.16
Oil and grease	23.3	23.3
TSS	35.0	28.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

## (6) Subpart A—Cadmium Powder Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cadmium pow	mg/kg of der produced
	English units—pounds p 1,000,000 pounds cadmium powder pri duced	
Cadmium	1.31	0.53
Nickel	3.61	2.43
Zinc	6.70	2.76
Cobalt	0.92	0.46
Oil and grease	65.70	65.70
TSS	98.55	78.84
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

# (7) Subpart A—Silver Powder Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Cadmium	0.64	0.26
Nickel	1.77	1.19
Silver	0.93	0.39
Zinc	3.27	1.35
Cobalt	0.45	0.22
Oil and grease	32.10	32.10
TSS	48.15	38.52
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

<sup>(8)</sup> Subpart A—Cadmium Hydroxide Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium used	
	English units—pounds pe 1,000,000 pounds of cad mium used	
Cadmium	0.028	0.011
Nickel	0.077	0.051
Zinc	0.142	0.058
Cobalt	0.019	0.009
Oil and grease	1.40	1.40
TSS	2.10	1.68
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

## (9) Subpart A—Nickel Hydroxide Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel used	
	English units—pounds per 1,000,000 pounds of nicker used	
Cadmium	3.30	1.32
Nickel	9.08	6.11
Zinc	16.83	6.93
Cobalt	2.31	1.16
Oil and grease	165.0	165.0
TSS	247.5	198.0
pH	(1)	( <sup>1</sup> )

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

 $[49~\mathrm{FR}~9134,~\mathrm{Mar.}~9,~1984;~49~\mathrm{FR}~13879,~\mathrm{Apr.}~9,~1984]$ 

### §461.14 Pretreatment standards for existing sources (PSES).

(a) Except as provided in 40 CFR 403.7 and §403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for existing sources listed below:

(1) Subpart A—Electrodeposited Anodes.

#### **PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium	
	English units—pounds pe 1,000,000 pounds of cadmium	
Cadmium	11.95	5.27
Nickel	67.49	44.64
Zinc	51.32	21.44
Cobalt	7.38	3.16

(2) Subpart A—Impregnated Anodes.

#### **PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium	
	English units—pounds pounds 1,000,000 pounds cadmium	
Cadmium	68.0	30.0
Nickel	384.0	254.0
Zinc	292.0	122.0
Cobalt	42.0	18.0

 $\begin{array}{ccc} \hbox{(3)} & \hbox{Subpart} & \hbox{A--Nickel} \\ \hbox{Electrodeposited Cathodes.} \end{array}$ 

### **PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units- 1,000,000 nickel appli	pounds of
Cadmium	11.22	4.95
Nickel	63.36	41.91
Zinc	48.18	20.13
Cobalt	6.93	2.97

(4) Subpart A—Nickel Impregnated Cathodes—PSES.

#### 40 CFR Ch. I (7-1-06 Edition)

#### §461.15

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds per 1,000,000 pounds of nickel applied	
Cadmium	68.0	30.0
Nickel	384.0	254.0
Zinc	292.0	122.0
Cobalt	42.0	18.0

# (5) Subpart A—Miscellaneous Wastewater Streams—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds pe 1,000,000 pounds o cells produced	
CadmiumNickel	0.79 4.47	0.35 2.96
Zinc	3.40	1.42
Cobalt	0.49	0.21

## (6) Subpart A—Cadmium Powder Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium powder produce	
	English units—pounds pe 1,000,000 pounds of cadmium powder pro duced	
Cadmium	2.23	0.99
Nickel	12.61	8.34
Zinc	9.59	4.01
Cobalt	1.38	0.59

# (7) Subpart A—Silver Powder Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Cadmium	1.09	0.48
Nickel	6.16	4.08
Silver	1.32	0.55
Zinc	4.69	1.96
Cobalt	0.67	0.29

(8) Subpart A—Cadmium Hydroxide Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium used English units—pounds pe 1,000,000 pounds of cac mium used	
Cadmium	0.05	0.02
Nickel	0.27	0.18
Zinc	0.20	0.09
Cobalt	0.03	0.012

# (9) Subpart A—Nickel Hydroxide Production—PSES.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of nickel used	
English units—pounds per 1,000,000 pounds of nickel used	
5.61	2.48
31.68	20.96
24.09	10.07
3.47	1.49
	for any 1 day  Metric units nickel English units-1,000,000 nickel used  5.61 31.68 24.09

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

# $\S 461.15$ Pretreatment standards for new sources (PSNS).

- (a) Except as provided in 40 CFR 403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for new sources listed below:
- (1) Subpart A—Electrodeposited Anodes—PSNS.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of cadmium  English units—pounds per 1,000,000 pounds of cadmium	
	14.76 2.46
	for any 1 day  Metric units cadn  English units-1,000,000 cadmium  7.03

(2) Subpart A—Impregnated Anodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium	
	English units—pounds pe 1,000,000 pounds o cadmium	
Cadmium	40.0	16.0
Nickel	110.0	74.0
Zinc	204.0	84.0
Cobalt	28.0	14.0

# $\begin{array}{ccc} \hbox{(3)} & \hbox{Subpart} & \hbox{A--Nickel} \\ \hbox{Electrodeposited Cathodes--PSNS}. \end{array}$

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds per 1,000,000 pounds of nickel applied	
Cadmium	6.60	2.64
Nickel	18.15	12.21
Zinc	33.66	13.86
Cobalt	4.62	2.31

# (4) Subpart A—Nickel Impregnated Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied English units—pounds pe 1,000,000 pounds of nickel applied	
Cadmium	40.0	16.0
Nickel	110.0	74.0
Zinc	204.0	84.0
Cobalt	28.0 14.0	

# (5) Subpart A—Miscellaneous Wastewater Streams—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Cadmium	0.47 1.28 2.38	0.19 0.86 0.98
Cobalt	0.33	0.16

## (6) Subpart A—Cadmium Powder Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average.
	Metric units—mg/kg of cadmium powder producer English units—pounds pe 1,000,000 pounds of cadmium powder pro duced	
Cadmium	1.31	0.53
Nickel	3.61	2.43
Zinc	6.70	2.76
Cobalt	0.92	0.46

## (7) Subpart A—Silver Powder Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average.
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Cadmium	0.64	0.26
Nickel	1.77	1.19
Silver	0.93	0.39
Zinc	3.27	1.35
Cobalt	0.45	0.22

# (8) Subpart A—Cadmium Hydroxide Production—PSNS.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of cadmium used	
English units—pounds per 1,000,000 pounds cadmium used	
0.028	0.011
0.077	0.051
0.142	0.058
0.019	0.009
	for any 1 day  Metric units cadmiu  English units-1,000,000 cadmium us  0.028 0.077 0.142

# (9) Subpart A—Nickel Hydroxide Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units nickel	
	English units- 1,000,000 nickel used	
Cadmium	3.30	1.32
Nickel	9.08	6.11
Zinc	16.83	6.93
Cobalt	2.31	1.16

(b) There shall be no discharge allowance for process wastewater pollutants

from any battery manufacturing operation other than those battery manufacturing operations listed above.

### Subpart B—Calcium Subcategory

## § 461.20 Applicability; description of the calcium subcategory.

This subpart applies to discharges to waters of the United States and introductions of pollutants into publicly owned treatment works from manufacturing calcium anode batteries.

#### §§ 461.21-461.22 [Reserved]

### § 461.23 New source performance standards (NSPS).

- (a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below.
- (b) There shall be no discharge for process wastewater pollutants from any battery manufacturing operations.

#### §461.24 [Reserved]

### § 461.25 Pretreatment standards for new sources (PSNS).

- (a) Except as provided in §403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for new sources listed below.
- (b) There shall be no discharge for process wastewater pollutants from any battery manufacturing operations.

### Subpart C—Lead Subcategory

## § 461.30 Applicability; description of the lead subcategory.

This subpart applies to discharges to waters of the United States and introduction of pollutants into publicly owned treatment works from the manufacturing of lead anode batteries.

# § 461.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

- (a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:
- (1) Subpart C—Closed Formation—Double Fill, or Fill and Dump.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of lead ed
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.86	0.45
Lead	0.19	0.090
Iron	0.54	0.27
Oil and grease	9.00	5.40
TSS	18.45	8.78
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(2) Subpart C—Open Formation—Dehydrated.

#### **BPT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
Metric units—	-mg/kg of lead ed
English units- 1,000,000 lead used	
20.99	11.05
4.64	2.21
16.13	6.74
221.00	132.60
453.05	215.47
(1)	(1)
	for any 1 day  Metric units—us  English units 1,000,000 lead used  20.99 4.64 16.13 221.00 453.05

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

<sup>(3)</sup> Subpart C—Open Formation—Wet.

### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	0 0
	English units- 1,000,000 lead used	
Copper	0.10	0.05
Lead	0.02	0.01
Iron	0.06	0.03
Oil and grease	1.06	0.64
TSS	2.17	1.03
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(4) Subpart C—Plate Soak.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	
	English units- 1,000,000 lead used	pounds per pounds of
Copper	0.040	0.020
Lead	0.009	0.004
Iron	0.030	0.010
Oil and grease	0.420	0.250
TSS	0.860	0.410
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

 $\left(5\right)$  Subpart C—Battery Wash (with Detergent).

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	0 0
	English units- 1,000,000 lead used	pounds per pounds of
Copper	1.71	0.90
Lead	0.38	0.18
Iron	1.08	0.55
Oil and grease	18.00	10.80
TSS	36.90	17.55
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(6) Subpart C—Battery Wash (Water Only).

### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	1	mg/kg of lead ed
	English units- 1,000,000 lead used	pounds per pounds of
Copper	1.12	0.59
Lead	0.25	0.12
Iron	0.71	0.36
Oil and grease	11.80	7.08
TSS	24.19	11.51
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(7) Subpart C—Direct Chill Lead Casting.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	mg/kg of lead ed
	English units- 1,000,000 lead used	pounds per pounds of
Copper	0.00040	0.00020
Lead	0.00008	0.00004
Iron	0.00020	0.00010
Oil and grease	0.00400	0.00200
TSS	0.00800	0.00300
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(8) Subpart C—Mold Release Formulation.

### BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property   Maximum for any 1 day   Maximum for monthly average			
Used   Used     Used       Used	Pollutant or pollutant property	for any 1	for monthly
1,000,000   pounds of lead used		1	0 0
Lead         0.002         0.001           Iron         0.007         0.004           Oil and grease         0.120         0.072           TSS         0.246         0.117		1,000,000	
Iron         0.007         0.004           Oil and grease         0.120         0.072           TSS         0.246         0.117	Copper	0.011	0.006
Oil and grease         0.120         0.072           TSS         0.246         0.117	Lead	0.002	0.001
TSS 0.246 0.117	Iron	0.007	0.004
	Oil and grease	0.120	0.072
pH (1)	TSS	0.246	0.117
	pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(9) Subpart C—Truck Wash.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— in trucked	mg/kg of lead I batteries
	English units—pounds pe 1,000,000 pounds of lead in trucked batteries	
Copper	0.026 0.005	0.014 0.002
Iron	0.016	0.008
Oil and grease	0.280	0.168
TSS	0.574	0.273
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

#### (10) Subpart C-Laundry.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	
	English units- 1,000,000 lead used	pounds per pounds of
Copper	0.21	0.11
Lead	0.05	0.02
Iron	0.13	0.07
Oil and grease	2.18	1.31
TSS	4.47	2.13
pH	(1)	(1)

 $<sup>^{\</sup>mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$ 

(11) Subpart C—Miscellaneous Wastewater Streams.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	0 0
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.81	0.43
Lead	0.18	0.09
Iron	0.51	0.26
Oil and grease	8.54	5.12
TSS	17.51	8.33
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing oper-

ation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 13879, Apr. 9, 1984]

# § 461.32 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(1) Subpart C—Open Formation—Dehydrated.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	mg/kg of lead ed
	English units- 1,000,000 lead used	pounds per pounds of
Copper	3.19	1.68
Lead	0.71	0.34
Iron	2.02	1.02

#### (2) Subpart C—Open Formation—Wet.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of lead ed
	English units- 1,000,000 p used	—pounds per ounds of lead
Copper	0.100	0.053
Lead	0.022	0.010
Iron	0.06	0.03

(3) Subpart C-Plate Soak.

### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.039	0.021
Lead	0.008	0.004
<u>Iron</u>	0.030	0.010

(4) Subpart C—Battery Wash (Detergent).

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or Pollutant Property	Maximum for any 1 Day	Maximum for monthly average
	1	mg/kg of lead ed
	English units- 1,000,000 lead used	pounds per pounds of
Copper	1.71	0.90
Lead	0.38	0.18
Iron	1.08	0.55

(5) Subpart C—Direct Chill Lead Casting.

### BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of lead used	
	English units 1,000,000 p used	—pounds per ounds of lead
Copper	0.0004 0.00008 0.0002	0.0002 0.00004 0.0001

(6) Subpart C—Mold Release Formulation.

### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—	mg/kg of lead ed
	English units- 1,000,000 lead used	pounds per pounds of
Copper	0.011	0.006
Lead	0.002	0.001
Iron	0.007	0.003

(7) Subpart C—Truck Wash.

#### **BAT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
	mg/kg of lead I batteries
1,000,000	—pounds per pounds of ked batteries
0.026 0.005 0.016	0.014 0.002 0.008
	for any 1 day  Metric units—in trucked English units—1,000,000 lead in trucked 0.026 0.005

(8) Subpart C—Laundry.

### **BAT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
otrio unite	average
use units—	mg/kg of lead ed
nglish units- 1,000,000 lead used	-pounds per pounds of
	0.11
0.21	0.02
0.21 0.05	0.02
	0.05

(9) Subpart C—Miscellaneous Wastewater Streams.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units—pounds pe 1,000,000 pounds of lead used	
Copper	0.58	0.31
Lead	0.13	0.06
Iron	0.37	0.19

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

 $[49\ FR\ 9134,\ Mar.\ 9,\ 1984;\ 49\ FR\ 13879,\ Apr.\ 9,\ 1984,\ as\ amended\ at\ 51\ FR\ 30816,\ Aug.\ 28,\ 1986]$ 

## § 461.33 New source performance standards (NSPS).

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:

(1) Subpart C—Open Formation—Dehydrated—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	mg/kg of lead ed
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	2.15	1.02
Lead	0.47	0.21
Iron	2.01	1.02
Oil and grease	16.80	16.80
TSS	25.20	20.16
pH	(1)	(¹)

<sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

(2) Subpart C—Open Formation—Wet—NSPS.

#### 40 CFR Ch. I (7-1-06 Edition)

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of lead ed
	English units 1,000,000 p used	pounds per ounds of lead
Copper	0.067	0.032
Lead	0.014	0.006
Iron	0.063	0.032
Oil and grease	0.53	0.53
TSS	0.80	0.64
pH	(1)	(1)

<sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

(3) Subpart C—Plate Soak—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		-mg/kg of lead ed
	English units 1,000,000 p used	—pounds per ounds of lead
Copper	0.026	0.012
Lead	0.005	0.002
Iron	0.025	0.012
Oil and grease	0.21	0.21
TSS	0.32	0.25
pH	(1)	(1)

<sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

(4) Subpart C—Battery Wash (Detergent)—NSPS.

Pollutant or pollutant Property	Maximum for any 1 Day	Maximum for monthly average
		mg/kg of lead ed
	English units- 1,000,000 p used	—pounds per ounds of lead
Copper	1.152	0.549
Lead	0.252	0.117
Iron	1.08	0.55
Oil and grease	9.0	9.0
TSS	13.5	10.8
pH	(1)	(1)

<sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

(5) Subpart C—Direct Chill Lead Casting—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of lead ed
	English units 1,000,000 p used	—pounds per ounds of lead
Copper	0.000256	0.000122
Lead	0.000056	0.000026
Iron	0.000240	0.000122
Oil and grease	0.0020	0.0020
TSS	0.0030	0.0024
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

# (6) Subpart C—Mold Release Formulation—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of lead ed
	English units—pounds per 1,000,000 pounds of lead used	
Copper	0.0077	0.0037
Lead	0.0017	0.0008
Iron	0.0072	0.0037
Oil and grease	0.060	0.060
TSS	0.090	0.072
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

#### (7) Subpart C—Truck Wash—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ng/kg of lead in batteries
	English units—pounds per 1,000,000 pounds of lead in trucked batteries	
Copper	0.006	0.003
Lead	0.001	0.0007
Iron	0.006	0.003
Oil and grease	0.050	0.050
TSS	0.075	0.060
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—	mg/kg of lead ed
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.14	0.07
Lead	0.03	0.01
Iron	0.13	0.07
Oil and grease	1.09	1.09
TSS	1.64	1.31
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

# (9) Subpart C—Miscellaneous Wastewater Streams—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used  English units—pounds pe 1,000,000 pounds of lea used	
Copper	0.39	0.19
Lead	0.085	0.039
Iron	0.37	0.19
Oil and grease	3.07	3.07
TSS	4.61	3.69
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5 to 10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

 $[49~\mathrm{FR}~9134,~\mathrm{Mar.}~9,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~51~\mathrm{FR}~30816,~\mathrm{Aug.}~28,~1986]$ 

## § 461.34 Pretreatment standards for existing sources (PSES).

- (a) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for existing sources listed below:
- (1) Subpart C—Open Formation—Dehydrated—PSES.

<sup>(8)</sup> Subpart C—Laundry—NSPS.

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day  Metric units—	average -mg/kg of lead
		ed —pounds per
	1,000,000 lead used	
Copper	3.19	1.68
Lead	0.71	0.34

# (2) Subpart C—Open Formation—Wet—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units—pounds 1,000,000 pounds lead used	
Copper	0.100 0.022	0.053 0.010

### (3) Subpart C—Plate Soak—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.039	0.021
Lead	0.008	0.004

# (4) Subpart C—Battery Wash—(Detergent)—PSES.

Pollutant or pollutant Property	Maximum for any 1 Day	Maximum for monthly average
	Metric units—mg/kg of lead used  English units—pounds per 1,000,000 pounds of lead used	
Copper	1.71	0.90
Lead	0.38	0.18

# $\begin{array}{cccc} \hbox{(5)} & \hbox{Subpart} & \hbox{C---Direct} & \hbox{Chill} & \hbox{Lead} \\ \hbox{Casting---PSES}. \end{array}$

### 40 CFR Ch. I (7-1-06 Edition)

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 p used	—pounds per ounds of lead
Copper	0.0004	0.0002
Lead	0.00008	0.00004

# (6) Subpart C—Mold Release Formulation—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	-mg/kg of lead ed
	English units- 1,000,000 lead used	
Copper	0.011 0.002	0.006 0.001

### (7) Subpart C—Truck Wash—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead in trucked batteries	
	English units—pounds per 1,000,000 pounds of lead in trucked batteries	
Copper	0.026 0.005	0.014 0.002

### (8) Subpart C—Laundry—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.21	0.11
Lead	0.05	0.02

# (9) Subpart C—Miscellaneous Wastewater Streams—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.58 0.13	0.31 0.06

- (b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.
- (c)(1) In cases where battery employee shower wastewater containing concentrations of lead exceeding 0.20 mg/l is combined with process wastewaters prior to treatment, the Control Authority may, for purposes of applying the Combined Wastestream Formula under \$403.6(e) of this chapter, notwithstanding the provisions of \$403.6(e), exercise its discretion and classify battery employee shower wastewater as an unregulated rather than a dilute  $(F_D)$  wastestream.
- (2) Before the Control Authority may exercise its discretion to classify such a stream as an unregulated stream, the battery manufacturer must provide engineering, production, and sampling and analysis information sufficient to allow a determination by the Control Authority on how the stream should be classified.

 $[49~\mathrm{FR}~9134,~\mathrm{Mar.}~9,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~51~\mathrm{FR}~30816,~\mathrm{Aug.}~28,~1986]$ 

## § 461.35 Pretreatment standards for new sources (PSNS).

- (a) Except as provided in §403.7, any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources:
- (1) Subpart C—Open Formation—Dehydrated—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lea	
	English units 1,000,000 lead used	—pounds per pounds of
Copper	2.15 0.47	1.02 0.21

(2) Subpart C—Open Formation—Wet—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of lead used	
	English units- 1,000,000 lead used	—pounds per pounds of
Copper	0.067 0.014	0.032 0.006

(3) Subpart C—Plate Soak—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— us	mg/kg of lead ed
	English units- 1,000,000 lead used	
Copper	0.026	0.012
Lead	0.005	0.002

(4) Subpart C—Battery Wash—(Detergent)—PSNS.

Pollutant or pollutant Property	Maximum for any 1 Day	Maximum for monthly average
	Metric units— us	
	English units- 1,000,000 lead used	
Copper	1.152	0.549
Lead	0.252	0.117
	•	•

(5) Subpart C—Direct Chill Lead Casting—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units—pounds per 1,000,000 pounds or lead used	
Copper	0.000256 0.000056	0.000122 0.000026

# (6) Subpart C—Mold Release Formulation—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of lead used	
	English units—pounds per 1,000,000 pounds of lead used	
Copper	0.007 0.0017	0.0037 0.0008

#### (7) Subpart C—Truck Wash—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead in trucked batteries	
	English units—pounds pe 1,000,000 pounds of lead in trucked batteries	
Copper	0.006 0.001	0.003 0.0007

#### (8) Subpart C-Laundry-PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lea	
	English units- 1,000,000 lead used	
Copper	0.14 0.03	0.07 0.01

(9) Subpart C—Miscellaneous Wastewater Streams—PSNS.

#### 40 CFR Ch. I (7-1-06 Edition)

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units- 1,000,000 p used	—pounds per ounds of lead
Copper	0.39 0.085	0.19 0.039

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operations other than those battery manufacturing operations listed above.

 $[49~\mathrm{FR}~9134,~\mathrm{Mar.}~9,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~51~\mathrm{FR}~30817,~\mathrm{Aug.}~28,~1986]$ 

# Subpart D—Leclanche Subcategory

# $\$\,461.40$ Applicability; description of the Leclanche subcategory.

This subpart applies to discharges to waters of the United States, and introductions of pollutants into publicly owned treatment works from manufacturing Leclanche type batteries (zinc anode batteries with acid electrolyte).

#### §§ 461.41-461.42 [Reserved]

# $\$\,461.43$ New source performance standards (NSPS).

- (a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:
- (1) Subpart D—Foliar Battery Miscellaneous Wash—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cell produced  English units—pounds produced	
Mercury	0.010	0.004
Zinc	0.067	0.030
Manganese	0.019	0.015
Oil and grease	0.66	0.66
TSS	0.99	0.79
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

### §461.44 Pretreatment standards for existing sources (PSES).

(a) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources listed below:

(1) Subpart D—Foliar Battery Miscellaneous Wash—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells	
	English units—pounds per 1,000,000 pounds of cell produced	
Mercury	0.010	0.004
Zinc	0.067	0.030
Manganese	0.019	0.015

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 27946, July 9, 1984]

## §461.45 Pretreatment standards for new sources (PSNS).

(a) Except as provided in §403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources listed below.

(1) Subpart D—Foliar Battery Miscellaneous Wash—PSNS.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of cells produced English units—pounds per 1,000,000 pounds of cells produced	
0.067	0.030
0.019	0.015
	for any 1 day  Metric units cells pr English units 1,000,000 cells product 0.010 0.067

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

#### Subpart E—Lithium Subcategory

## § 461.50 Applicability; description of the lithium subcategory.

This subpart applies to discharges to waters of the United States and introduction of pollutants into publicly owned treatment works from the manufacturing of lithium anode batteries.

#### §§ 461.51-461.52 [Reserved]

#### 

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:

(1) Subpart E—Lead Iodide Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—r	mg/kg of lead
	English units- 1,000,000 po	
Chromium	23.34	9.46
Lead	17.66	8.20
Iron	75.70	38.48
TSS	946.2	756.96
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(2) Subpart E—Iron Disulfide Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— disu	-mg/kg of Iron Ifide
	English units 1,000,000 p disulfide	—pounds per ounds of Iron
Chromium	2.79	1.13
Lead	2.11	0.98
Iron	9.05	4.60
TSS	113.1	90.5
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

# (3) Subpart E—Miscellaneous Wastewater Streams—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of cells uced
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium	0.039	0.016
Lead	0.030	0.014
Iron	0.129	0.066
TSS	1.62	1.30
pH	(1)	(1)

 $<sup>^{\</sup>mbox{\tiny 1}}$  Within the range of 7.5–10.0 at all times.

### (4) Subpart E—Air Scrubbers—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of oduced
	English units- 1,000,000 cells produc	
TSSpH	434.0 (¹)	207.0 (¹)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

#### §461.54 [Reserved]

### § 461.55 Pretreatment standards for new sources (PSNS).

(a) Except as provided in §403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources listed below:

(1) Subpart E—Lead Iodide Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—	-mg/kg of lead
		—pounds per ounds of lead
Chromium	23.34 17.66	9.46 8.20

### (2) Subpart E—Iron Disulfide Cathodes—PSNS.

Maximum for any 1 day	Maximum for monthly average
Metric units— disu	-mg/kg of iron Ifide
English units- 1,000,000 p disulfide	—pounds per counds of iron
2.79	1.13
2.11	0.98
	for any 1 day  Metric units—disu  English units—1,000,000 pdisulfide  2.79

### (3) Subpart E—Miscellaneous Wastewater Streams—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium	0.039 0.030	0.016 0.014

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

### Subpart F—Magnesium Subcategory

### § 461.60 Applicability; description of the magnesium subcategory.

This subpart applies to discharges to waters of the United States and introduction of pollutants into publicly owned treatment works from the manufacturing of magnesium anode batteries.

#### §§ 461.61-461.62 [Reserved]

### § 461.63 New source performance standards (NSPS).

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:

(1) Subpart F—Silver Chloride Cathodes—Chemically Reduced—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of silver
	English units—pounds po 1,000,000 pounds of silve processed	
Lead	22.93	10.65
Silver	23.75	9.83
Iron	98.28	49.96
TSS	1,228.5	982.8
COD	4,095.0	1,999.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(2) Subpart F—Silver Chloride Cathodes—Electrolytic—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of ocessed
		—pounds per counds of sil- ed
Lead	40.6	18.9
Silver	42.1	17.4
Iron	174.0	88.5
TSS	2,175.0	1,740.0
COD	7,250.0	3,540.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(3) Subpart F—Cell Testing—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units cells pr	
	English units—pounds pe 1,000,000 pounds o cells produced	
Lead	19.5 15.3	7.89 6.31
Iron	63.1	32.1
TSS	789.0	631.2
COD	2,630.0	1,290.0
pH	(1)	(¹)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(4) Subpart F—Floor and Equipment Wash—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of cells uced
	English units—pounds per 1,000,000 pounds of cells produced	
Lead	0.026	0.012
Silver	0.027	0.011
Iron	0.112	0.057
COD	4.70	2.30
TSS	1.41	1.13
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

#### (5) Subpart F-Air Scrubber-NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
TSSpH	8,467.0 (¹)	4,030.0 (¹)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

 $[49~\mathrm{FR}~9134,~\mathrm{Mar.}~9,~1984;~49~\mathrm{FR}~13879,~\mathrm{Apr.}~9,~1984]$ 

# § 461.64 Pretreatment standards for existing sources (PSES).

(a) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources listed below:

(1) Subpart F—Silver Chloride Cathodes—Chemically Reduced—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Lead Silver	1,032.36 1,007.78	491.60 417.86

## (2) Subpart F—Silver Chloride Cathodes—Electrolytic—PSES.

Metric units silver pro	ocessed
English units—pounds pe 1,000,000 pounds of si ver processed	
60.9	29.0 24.7
ver processed . 60.9 2	

#### (3) Subpart F—Cell Testing—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Lead Silver	22.1 21.6	10.5 8.9

# (4) Subpart F—Floor and Equipment Wash—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds pe 1,000,000 pounds o cells produced	
Lead	0.039 0.038	0.018 0.015

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

### § 461.65 Pretreatment standards for new sources (PSNS).

(a) Except as provided in §403.7 any new source subject to this subpart that

introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources listed below:

(1) Subpart F—Silver Chloride Cathodes—Chemically Reduced—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
		—pounds per pounds of sil- ed
LeadSilver	22.93 23.75	10.65 9.83

## (2) Subpart F—Silver Chloride Cathodes—Electrolytic PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds pe 1,000,000 pounds of sil ver processed	
Lead	40.6 42.1	18.9 17.4

#### (3) Subpart F-Cell Testing-PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units- 1,000,000 cells produc	pounds of
Lead	19.5	7.89
Silver	15.3	6.31

### (4) Subpart F—Floor and Equipment Wash—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds p 1,000,000 pounds cells produced	
Lead Silver	0.026 0.027	0.012 0.011

(b) There shall be no discharge allowance for process wastewater pollutants

from any battery manufacturing operation other than those battery manufacturing operations listed above.

### Subpart G—Zinc Subcategory

## § 461.70 Applicability; description of the zinc subcategory.

This subpart applies to discharges to waters of the United States, and introductions of pollutants into publicly owned treatment works from the manufacturing of zinc anode batteries.

# § 461.71 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(1) Subpart G—Wet Amalgamated Powder Anodes.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of Zinc	
		—pounds per ounds of Zinc
Chromium	1.67	0.68
Mercury	0.95	0.38
Silver	1.56	0.65
Zinc	5.55	2.32
Manganese	2.58	1.10
Oil and grease	76.0	45.6
TSS	155.8	74.1
pH	(1)	(1)

<sup>1</sup> Within the range of 7.5–10.0 at all times.

(2) Subpart G—Gelled Amalgam Anodes.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of Zinc	
	English units- 1,000,000 po	
Chromium	0.30	0.12
Mercury	0.17	0.07
Silver	0.28	0.12
Zinc	0.99	0.42
Manganese	0.46	0.20
Oil and grease	13.6	8.16
TSS	27.9	13.26
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(3) Subpart G—Zinc Oxide, Formed Anodes.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-	mg/kg of Zinc
		—pounds per ounds of Zinc
Chromium	62.9	25.7
Mercury	35.8	14.3
Silver	58.7	24.3
Zinc	208.8	87.2
Manganese	97.2	41.5
Oil and grease	2,860.0	1,716.0
TSS	5,863.0	2,789.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(4) Subpart G—Electrodeposited Anodes.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zind deposited	
	English units—pounds pe 1,000,000 pounds of zin deposited	
Chromium	1,404.0	574.0
Mercury	798.0	319.0
Silver	1,308.0	543.0
Zinc	4,657.0	1,946.0
Manganese	2,169.0	925.0
Oil and grease	63,800.0	38,280.0
TSS	130,700.0	62,210.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(5) Subpart G—Silver Powder, Formed Cathodes.

### 40 CFR Ch. I (7-1-06 Edition)

### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of silver applied	
	English units—pounds per	
	1,000,000 pounds of sil-	
	ver applied	
Chromium	86.2	35.3
Mercury	49.0	19.6
Silver	80.4	33.3
Zinc	286.2	119.6
Manganese	133.3	56.8
Oil and grease	3,920.0	2,350.0
TSS	8,036.0	3,822.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

 $\mbox{(6)}$  Subpart G—Silver Oxide Powder, Formed Cathodes.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds pe 1,000,000 pounds of sil ver applied	
Chromium	57.7 32.8 53.7	23.6 13.1 22.3
Zinc Manganese	191.3 89.1	79.9 38.0
Oil and greasepH	2,620.0 5,370.0 (¹)	1,570.0 2,554.0 (¹)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(7) Subpart G—Silver Peroxide Cathodes.

### BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied  English units—pounds pe 1,000,000 pounds of silve applied	
Chromium	13.8	5.65
Mercury	7.85	3.14
Silver	12.9	5.34
Zinc	45.8	19.2
Manganese	21.4	9.11
Oil and grease	628.0	377.0
TSS	1,287.0	612.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(8) Subpart G—Nickel Impregnated Cathodes.

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds pe 1,000,000 pounds on nickel applied	
Chromium	721.6	295.2
Mercury	410.0	164.0
Nickel	3,149.0	2,083.0
Silver	672.4	279.0
Zinc	2,394.4	1,000.4
Manganese	1,115.2	475.6
Oil and grease	32,800.0	19,680.0
TSS	67,240.0	31,980.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5–10.0 at all times.

(9) Subpart G—Miscellaneous Wastewater Streams.

### BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds pounds 1,000,000 pounds cells produced	
Chromium	3.85	1.58
Cyanide	2.54	1.05
Mercury	2.19	0.88
Nickel	16.82	11.12
Silver	3.59	1.49
Zinc	12.79	5.34
Manganese	5.96	2.54
Oil and grease	175.20	105.12
TSS	359.16	170.82
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

<sup>(10)</sup> Subpart G—Silver Etch.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Chromium	21.6	8.84
Mercury	12.3	4.91
Silver	20.2	8.35
Zinc	71.7	30.0
Manganese	33.4	14.3
Oil and grease	982.0	589.2
TSS	2,013.1	957.5
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(11) Subpart G—Silver Peroxide Production.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide processed	
	English units—pounds per 1,000,000 pounds of silver peroxide processed	
Chromium	23.0	9.40
Mercury	13.1	5.22
Silver	21.4	8.88
Zinc	76.2	31.80
Manganese	35.5	15.10
Oil and grease	1,044.0	627.00
TSS	2,140.0	1,018.00
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(12) Subpart G—Silver Powder Production.

**BPT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder processed	
	English units—pounds pe 1,000,000 pounds of silve powder processed	
Chromium	9.33	3.82
Mercury	5.30	2.12
Silver	8.69	3.61
Zinc	30.95	12.93
Manganese	14.42	6.15
Oil and grease	424.0	254.40
TSS	869.0	413.40
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the range of 7.5-10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 13879, Apr. 9, 1984]

# § 461.72 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly aver-
r ollularit or pollularit property	day	age
	Metric units—mg/kg of Zinc English units—pounds per 1,000,000 pounds of Zinc	
Chromium	0.24	0.099
Mercury	0.14	0.055
Silver	0.23	0.093
Zinc	0.80	0.34
Manganese	0.37	0.16

(2) Subpart G—Gelled Amalgam Anodes.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of Zin English units—pounds pe 1,000,000 pounds of Zinc	
Chromium	0.030	0.012
Mercury	0.017	0.007
Silver	0.028	0.012
Zinc	0.099	0.042
Manganese	0.046	0.020

(3) Subpart G—Zinc Oxide Formed Anodes.

### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of Zind	
	English units—pounds per 1,000,000 pounds of Zinc	
Chromium	9.53	3.90
Mercury	5.42	2.17
Silver	8.89	3.68
Zinc	31.64	13.22
Manganese	14.74	6.28

(4) Subpart G—Electrodeposited Anodes.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc deposited	
	English units—pounds per 1,000,000 pounds of zinc deposited	
Chromium	94.47	38.65
Mercury	53.68	21.47
Silver	88.03	36.50
Zinc	313.46	130.97
Manganese	146.00	62.26

(5) Subpart G—Silver Powder Formed Cathodes.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds pe 1,000,000 pounds of sil ver applied	
Chromium	13.07	5.35
Mercury	7.43	2.97
Silver	12.18	5.05
Zinc	43.36	18.12
Manganese	20.20	8.61

(6) Subpart G—Silver Oxide Powder Formed Cathodes.

### 40 CFR Ch. I (7-1-06 Edition)

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds pe 1,000,000 pounds of sil ver applied	
Chromium	8.73	3.57
Mercury	4.96	1.99
Silver	8.14	3.37
Zinc	28.98	12.11
Manganese	13.50	5.76

**BAT EFFLUENT LIMITATIONS** 

(7) Subpart G—Silver Peroxide Cathodes.

#### **BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds pe 1,000,000 pounds of si ver applied	
Chromium	2.09	0.87
Mercury	1.19	0.48
Silver	1.95	0.81
Zinc	6.95	2.90
Manganese	3.24	1.38

(8) Subpart G—Nickel Impregnated Cathodes.

#### **BAT EFFLUENT LIMITATIONS**

Maximum for any 1 day	Maximum for monthly average
Metric units-mg/kg of nickel applied	
English units—pounds pe 1,000,000 pounds o nickel applied	
88.0	36.0
50.0	20.0
384.0	254.0
82.0	34.0
292.0	122.0
136.0	58.0
	for any 1 day  Metric units nickel a English units-1,000,000 nickel application application and a second as a seco

(9) Subpart G—Miscellaneous Wastewater Streams.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium	0.57	0.23
Cyanide	0.38	0.16
Mercury	0.32	0.13
Nickel	2.48	1.64
Silver	0.53	0.22
Zinc	1.88	0.79
Manganese	0.88	0.37

(10) Subpart G—Silver Etch.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Chromium	3.27	1.34
Mercury	1.86	0.74
Silver	3.05	1.26
Zinc	10.86	4.54
Manganese	5.06	2.16

(11) Subpart G—Silver Peroxide Production.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide produced	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium	3.48	1.42
Mercury	1.98	0.79
Silver	3.24	1.34
Zinc	11.55	4.83
Manganese	5.38	2.29

(12) Subpart G—Silver Powder Production.

**BAT EFFLUENT LIMITATIONS** 

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds pe 1,000,000 pounds of sil ver powder produced	
Chromium	1.41	0.58
Mercury	0.80	0.32
Silver	1.32	0.55
Zinc	4.69	1.96
Manganese	2.18	0.93

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 13879, Apr. 9, 1984]

# $\$\,461.73$ New source performance standards. (NSPS).

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:

(1) Subpart G—Zinc Oxide Formed Anodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-	mg/kg of zinc
		pounds per ounds of zinc
Chromium	4.55	1.97
Mercury	2.82	1.19
Silver	4.55	1.97
Zinc	0.87	0.39
Manganese	6.50	4.98
Oil and grease	216.7	216.7
TSS	325.0	260.0
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5–10.0 at all times.

(2) Subpart G—Electrodeposited Anodes—NSPS.

### 40 CFR Ch. I (7-1-06 Edition)

### §461.73

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc deposited	
	English units—pounds pe 1,000,000 pounds of zind deposited	
Chromium	45.09	19.54
Mercury	27.91	11.81
Silver	45.09	19.54
Zinc	8.59	3.86
Manganese	64.41	49.38
Oil and grease	2,147.00	2,147.00
TSS	3,220.50	2,576.40
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5-10.0 at all times.

# (3) Subpart G—Silver Powder Formed Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium	6.24	2.70
Mercury	3.86	1.63
Silver	6.24	2.70
Zinc	1.19	0.53
Manganese	8.91	6.83
Oil and grease	297.00	297.00
TSS	445.5	356.40
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5–10.0 at all times.

# (4) Subpart G—Silver Oxide Powder Formed Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of silver lied
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium	4.17	1.81
Mercury	2.58	1.09
Silver	4.17	1.81
Zinc	0.79	0.36
Manganese	5.96	4.57
Oil and grease	198.5	198.5
TSS	297.8	238.2
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5–10.0 at all times.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium	1.00	0.43
Mercury	0.62	0.26
Silver	1.00	0.43
Zinc	0.19	0.09
Manganese	1.43	1.09
Oil and grease	47.6	47.6
TSS	71.4	57.1
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5-10.0 at all times.

# (6) Subpart G—Nickel Impregnated Cathodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds pe 1,000,000 pounds of nick el applied	
Chromium	42.0	18.2
Mercury	26.0	11.0
Nickel	42.0	18.2
Silver	42.0	18.2
Zinc	8.0	3.6
Manganese	60.0	46.0
Oil and grease	2,000.0	2,000.0
TSS	3,000.0	2,400.00
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5–10.0 at all times.

# (7) Subpart G—Miscellaneous Wastewater Streams—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced  English units—pounds per 1,000,000 pounds of cells produced	
Chromium Cyanide Mercury Nickel Silver Zinc Manganese Oil and grease TS pH	0.27 0.039 0.17 0.27 0.27 0.05 0.39 12.90 19.35	0.12 0.016 0.07 0.12 0.12 0.02 0.30 12.90 15.48

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5-10.0 at all times.

<sup>(5)</sup> Subpart G—Silver Peroxide Cathodes—NSPS.

<sup>(8)</sup> Subpart G—Silver Etch—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units silver pr	mg/kg of ocessed
	English units—pounds pe 1,000,000 pounds of si ver processed	
Chromium	1.56	0.68
Mercury	0.97	0.41
Silver	1.56	0.68
Zinc	0.30	0.13
Manganese	2.23	1.71
Oil and grease	74.40	74.40
TSS	111.60	89.28
pH	(¹)	(¹)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5-10.0 at all times.

## (9) Subpart G—Silver Peroxide Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units silver peroxi	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium	1.66	0.72
Mercury	1.03	0.44
Silver	1.66	0.72
Zinc	0.32	0.14
Manganese	2.37	1.82
Oil and grease	79.10	79.10
TSS	118.65	94.92
pH	( <sup>1</sup> )	(¹)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5-10.0 at all times.

# (10) Subpart G—Silver Powder Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds pe 1,000,000 pounds of sil ver powder produced	
Chromium	0.67	0.29
Mercury	0.42	0.18
Silver	0.67	0.29
Zinc	0.13	0.06
Manganese	0.96	0.74
Oil and grease	32.10	32.10
TSS	48.15	38.52
pH	(1)	(1)

<sup>&</sup>lt;sup>1</sup> Within the limits of 7.5–10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

# § 461.74 Pretreatment standards for existing sources (PSES).

- (a) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources:
- (1) Subpart G—Wet Amalgamated Powder Anode—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—	mg/kg of zinc
	English units—pounds per 1,000,000 pounds of zinc	
Chromium	0.24	0.099
Mercury	0.14	0.055
Silver	0.23	0.093
Zinc	0.80	0.34
Manganese	0.37	0.16

### (2) Subpart G—Gelled Amalgam Anodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc English units—pounds per 1,000,000 pounds of zinc	
Chromium	0.030 0.017 0.028 0.099 0.046	0.12 0.006 0.012 0.042 0.020

## (3) Subpart G—Zinc Oxide Formed Anodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		mg/kg of zinc
	English units—pounds per 1,000,000 pounds of zinc	
Chromium	9.53	3.90
Mercury	5.42	2.17
Silver	8.89	3.68
Zinc	31.64	13.22
Manganese	14.74	6.28

(4) Subpart G—Electrodeposited Anodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units— depo	
	English units—pounds per 1,000,000 pounds of zind deposited	
Chromium	94.47 53.68 88.03 313.46	38.65 21.47 36.50 130.97
Manganese	146.00	62.26

# (5) Subpart G—Silver Powder Formed Cathodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units	mg/kg of
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium Mercury Silver Zinc Maganese	13.07 7.43 12.18 43.36 20.20	5.35 2.97 5.05 18.12 8.61

# (6) Subpart G—Silver Oxide Powder Formed Cathodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium	8.73	3.57
Mercury	4.96	1.99
Silver	8.14	3.37
Zinc	28.98	12.11
Manganese	13.50	5.76

## (7) Subpart G—Silver Peroxide Cathodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds pe 1,000,000 pounds of sil ver applied	
Chromium Mercury Silver	2.09 1.19 1.95	0.87 0.48 0.81
Zinc Manganese	6.95 3.24	2.90 1.38

### 40 CFR Ch. I (7-1-06 Edition)

# (8) Subpart G—Nickel Impregnated Cathodes—PSES.

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day	average
	Metric units—mg/kg of nickel applied	
	English units—pounds per 1,000,000 pounds o nickel applied	
Chromium	88.0	36.0
Mercury	50.0	20.0
Nickel	384.0	254.0
Silver	82.0	34.0
Zinc	292.0	122.0
Manganese	136.0	58.0

# (9) Subpart G—Miscellaneous Wastewater Streams—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds 1,000,000 pounds cells produced	
Chromium Cyanide Mercury	0.57 0.38 0.32	0.23 0.16 0.13
Nickel	2.48 0.53	1.64 0.22
Zinc Manganese	1.88 0.88	0.79 0.37

### (10) Subpart G—Silver Etch—PSES.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of silver processed	
English units—pounds pounds of silver processed	
3.27	1.34
1.86	0.74
3.05	1.26
10.86	4.54
5.06	2.16
	for any 1 day  Metric units silver pr English units 1,000,000   ver process 3.27 1.86 3.05 10.86

(11) Subpart G—Silver Peroxide Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide produced	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium	3.48	1.42
Mercury	1.98	0.79
Silver	3.24	1.34
Zinc	11.55	4.83
Manganese	5.38	2.29

## (12) Subpart G—Silver Powder Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Chromium	1.41	0.58
Mercury	0.80	0.32
Silver	1.32	0.55
Zinc	4.69	1.96
Manganese	2.18	0.93

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

# § 461.75 Pretreatment standards for new sources (PSNS).

(a) Except as provided in §403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources listed below:

# (1) Subpart G—Zinc Oxide Formed Anodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units-mg/kg of zinc	
	English units—pounds per 1,000,000 pounds of zinc	
Chromium	4.55	1.97
Mercury	2.82	1.19
Silver	4.55	1.97
Zinc	0.87	0.39
Manganese	6.50	4.98

(2) Subpart G—Electrodeposited Anodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc deposited	
	English units—pounds pe 1,000,000 pounds of zin deposited	
Chromium	45.09	19.54
Mercury	27.91	11.81
Silver	45.09	19.54
Zinc	8.59	3.86
Manganese	64.41	49.38

# (3) Subpart G—Silver Powder Formed Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium	6.24	2.70
Mercury	3.86	1.63
Silver	6.24	2.70
Zinc	1.19	0.53
Manganese	8.91	6.83

# (4) Subpart G—Silver Oxide Powder Formed Cathodes—PSNS.

aximum r any 1 day	Maximum for monthly average
Metric units—mg/kg of silver applied	
English units—pounds p 1,000,000 pounds of s ver applied	
4.17	1.81
2.58	1.09
4.17	1.81
0.79	0.36
5.96	4.57
_	5.50

## (5) Subpart G—Silver Peroxide Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
		—pounds per pounds of sil-
Chromium	1.00	0.43
Mercury	0.62	0.26
Silver	1.00	0.43
Zinc	0.19	0.09
Manganese	1.43	1.09

### 40 CFR Ch. I (7-1-06 Edition)

#### Pt. 463

## (6) Subpart G—Nickel Impregnated Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds per 1,000,000 pounds of nickel applied	
Chromium	42.0	18.2
Mercury	26.0	11.0
Nickel	42.0	18.2
Silver	42.0	18.2
Zinc	8.0	3.6
Manganese	60.0	46.0

# (7) Subpart G—Miscellaneous Wastewater Streams—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium	0.27	0.12
Cyanide	0.039	0.016
Mercury	0.17	0.07
Nickel	0.27	0.12
Silver	0.27	0.12
Zinc	0.05	0.02
Manganese	0.39	0.30

#### (8) Subpart G-Silver Etch-PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Chromium	1.56	0.68
Mercury	0.97	0.41
Silver	1.56	0.68
Zinc	0.30	0.13
Manganese	2.23	1.71

(9) Subpart G—Silver Peroxide Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide produced	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium	1.66	0.72
Mercury	1.03	0.44
Silver	1.66	0.72
Zinc	0.32	0.14
Manganese	2.37	1.82

# (10) Subpart G—Silver Powder Production—PSNS.

Maximum for any 1 day	Maximum for monthly average
Metric units—mg/kg of silver powder produced	
English units—pounds per 1,000,000 pounds of silver powder produced	
0.67	0.29
0.42	0.18
0.67	0.29
0.13	0.06
0.96	0.74
	for any 1 day  Metric units silver powde  English units 1,000,000 p ver powder  0.67 0.42 0.67 0.13

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 13879, Apr. 9, 1984]

#### PART 463—PLASTICS MOLDING AND FORMING POINT SOURCE CATEGORY

GENERAL PROVISIONS

Sec.

463.1 Applicability.

463.2 General definitions.

463.3 Monitoring and reporting requirements.

#### Subpart A—Contact Cooling and Heating Water Subcategory

- 463.10 Applicability; description of the contact cooling and heating water subcategory.
- 463.11 Specialized definitions.
- 463.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.